Docket No.

239568US0CONT

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Tomohiro KODERA et al.

SERIAL NO:

**NEW APPLICATION** 

GAU:

FILED:

**HEREWITH** 

**EXAMINER:** 

FOR:

INHIBITORS OF ANGIOTENSIN CONVERTING ENZYME

#### INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VA 22313-1450

SIR:

Applicant(s) wish to disclose the following information.

#### REFERENCES

- The applicant(s) wish to make of record the references cited on the attached International Search Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

#### **RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

#### CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited first in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

#### **DEPOSIT ACCOUNT**

Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

10/1a

Norman F. Oblon Registration No.

24,618

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 10/98) Frederick D. Vastine Registration No. 27,013 Docket No. 239568US0CONT

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Tomohiro KODERA et al.

SERIAL NO: NEW APPLICATION GAU:

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Jorman F. Oblon

Registration No. 24,618

Frederick D. Vastine Registration No. 27,013

me)

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Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 10/98)

Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO. 239568US0CONT		SERIAL NO. NEW APPLICATION		
LIST OF REFERENCES CITED BY APPLICANT			APPLICANT Tomohiro KODERA et al.				
			FILING DATE  HEREWITH		GROUP		
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB FILING DATE CLASS IF APPROPRIATE	
	AA						
	AB						
	AC						
	AD						
	AE						
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	AN						
			FO	REIGN PATENT DOCUMENTS			
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
	AO	2000-83695		JAPAN w/Attached English Abstract			X
	AP	8-269087		JAPAN w/Attached English Abstract			X
	AQ	3-167198	07-19-91	JAPAN w/Attached English Abstract			X
	AR						
	AS						
	AT						
	AU					ļ	
	AV					<u> </u>	
		OTHER REF	ERENCES (	Including Author, Title, Date, Pertin	ent Pages, e	etc.)	
	AW						
	AX						
	AY						
	AZ						
Examiner	Examiner Date Considered						
				t citation is in conformance with MPEI with next communication to applican		ine through	citation if not in

#### PATENT COOPERATION TREATY

From Japanese Patent Office (The International Preliminary Examining Authority)

To : Address:

: Minoru NAKAMURA

Room 646,

Shin-Tokyo Bldg., 3-1, Marunouchi 3-Chome, Chiyoda-Ku, Tokyo, 100 PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

[Enforcement Regulation 57]
[PCT Rule 71.1]

Date of Mailing

October 15, 2002

Applicant's or Agent's file reference Y111149

# IMPORTANT NOTIFICATION

International Filing Number PCT/JP 02/ 00194

International Filing Date January 15, 2002

Priority Date January 16, 2001

Applicant AJINOMOTO CO., INC.

- 1. The applicant is hereby notified that the International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, eatablished on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Office) (Article 39(1)) (See also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and address: Japanese Patent Office (IPEA/JP) No. 4-3, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, 100 JAPAN Competent Officer Authorized Official 8114

Commissioner of the Patent Office Telephone No.: 03-3581-1101 Ex. 3448

4N

# PATENT COOPERATION TREATY

# Translation

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Y1I1149	FOR FURTHER ACTION  SeeNotificationofTransmittalofInternational Prelimina Examination Report (Form PCT/IPEA/416)		
International application No. PCT/JP02/00194	International filing date (day/month/year) Priority date (day/month/year)  January 15, 2002 January 16, 2001		
International Patent Classification (IPC) or na			
Int.Cl <sup>7</sup> C07K7/14,A23J3/16,A2	23J3/34		
Applicant AJINOMOTO CO., INC.			
This international preliminary examin and is transmitted to the applicant accurate.	nation report has been prepared by this International Preliminary Examining Authority cording to Article 36.		
2. This REPORT consists of a total of _	3 sheets, including this cover sheet.		
been amended and are the basis	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have s for this report and/or sheets containing rectifications made before this Authority (see the Administrative Instructions under the PCT).		
These annexes consist of a total	l of sheets.		
3. This report contains indications relating	ng to the following items:		
I X Basis of the report			
ll Priority			
III Non-establishment of o	opinion with regard to novelty, inventive step and industrial applicability		
IV Lack of unity of invent	tion		
V X Reasoned statement un citations and explanation	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; ons supporting such statement		
VI Certain documents cite	đ		
VII Certain defects in the international application			
VIII Certain observations on	n the international application		
Date of submission of the demand July 15, 2002	Date of completion of this report October 1, 2002		
Name and mailing address of the IPEA/IP  JAPAN PATENT OFFICE	Authorized officer 4N8114 Eriko SUZUKI		
Facsimile No.	Telephone No. 03-3581-1101 Ex: 3448		

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International appli		:	21.
International appli PCT/JP02/00	cai	)On	NO
- ΤΟΤΕΙΙΙΑΝΟΝΙΚΑ	40		
PC1/JPU2/UU	15	14	

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Bas	is of the r	report
I. Wit	th regard t	to the elements of the international application:*
X	the int	ernational application as originally filed
	the des	scription:
	pages	, as originally file
	pages	filed with the deman
	pages	, filed with the letter of
ı¬	the cla	
لــا	pages	
	pages.	, as amended (together with any statement under Anicle 19
	pages	, filed with the demand
	pages	, filed with the letter of
	the drav	
	pages	, as originally filed
	pages	, filed with the demand
	pages	, filed with the letter of
	the seque	nce listing part of the description:
	pages .	, as originally filed
	pages	, filed with the demand
	pages _	, filed with the letter of
With	the lang or 55.3) regard ninary ex	guage of publication of the international application (under Rule 48.3(b)).  guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/).  to any nucleotide and/or amino acid sequence disclosed in the international application, the international amination was carried out on the basis of the sequence listing:
X		gether with the international application in computer readable form.
Ħ		d subsequently to this Authority in written form.
Ħ		d subsequently to this Authority in computer readable form.
	The stat	tement that the subsequently furnished written sequence listing does not go beyond the disclosure in the onal application as filed has been furnished.
X	been fur	ement that the information recorded in computer readable form is identical to the written sequence listing has nished.
	The ame	ndments have resulted in the cancellation of:
ļ	լր	ne description, pages
Ī	լհ	e claims, Nos.
[	1 <i>h</i>	e drawings, sheets/fig
		rt has been established as if (some of) the amendments had not been made, since they have been considered to go e disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
Replace n this nd 70.	report a	eets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
ny rep	laceme ni	sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP02/00194

V. Reasoned statement under Arti citations and explanations supp		regard to novelty, inventive step or indi	ostrial applicability;
1. Statement			
Novelty (N)	Claims _	1-6	YES
	Claims -		МО
Inventive step (IS)	Claims _	1-6	YES
	Claims _		NO
Industrial applicability (IA)	Claims _	1-6	YES
	Claims _		NO NO
. Citations and explanations	<del></del>		
Please see attached pa	aper.		

- V. Reasoned statement under Article 12 (PCT Article 35(2)) with regard to novelty, inventive step or industrial applicability; citations and explanation supporting such statement
- 2. Citations and explanation (PCT Rule 70.7)

Document 1:JP 2000-83695 A (Ajinomoto Co., Inc.) 2000.03.28 (No patent family)

Document 2: JP 8-269087 A (Fumio Yamauchi) 1996.10.15 (No patent family)

Document 3: JP 3-167198 A (National Food Research Institute Ministry of Agriculture Forestry and Fisheries)

(No patent family)

The inventions set forth as Claims 1-6 appear to involve an inventive step with respect to documents 1-3 cited in the International Search Report. None of documents 1-3 describes the following peptide (1) - (5) and even those skilled in the art would not conceive them:

- (1) Tyr-Val-Val-Phe-Lys
- (2) Pro-Asn-Asn-Lys-Pro-Phe-Gln
- (3) Asn-Trp-Gly-Pro-Leu-Val
- (4) Ile-Pro-Pro-Gly-Val-Pro-Tyr-Trp-Thr
- (5) Thr-Pro-Arg-Val-Phe

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/00194

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C07K7/14, A23J3/16, A23J3/34						
According to International Patent Classification (IPC) or to both national classification and IPC						
	S SEARCHED	·				
Minimum d Int.	Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> C07K7/00-7/14, A23J3/16, A23J3/34					
Documentat	tion searched other than minimum documentation to the	e extent that such documents are included	in the fields searched			
-						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CA (STN), REGISTRY (STN)						
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a		Relevant to claim No.			
A	JP, 2000-83695, A (Ajinomoto 28 March, 2000 (28.03.00), (Family: none)	o Co., Inc.),	1-6			
A	JP, 8-269087, A (Fumio YAMAN 15 October, 1996 (15.10.96), (Family: none)	1-6				
A	JP, 3-167198, A (National Follows) 19 July, 1991 (19.07.91), (Family: none)	od Research Institute),	1-6			
<u> </u>	er documents are listed in the continuation of Box C.	See patent family annex.				
"A" docume consider earlier of date "L" docume cited to special docume means "P" docume than the Date of the a	categories of cited documents: ent defining the general state of the art which is not red to be of particular relevance document but published on or after the international filing ent which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later expriority date claimed ctual completion of the international search ebruary, 2002 (28.02.02)	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family  Date of mailing of the international search report  12 March, 2002 (12.03.02)				
Japai	ailing address of the ISA/ nese Patent Office	Authorized officer				
Facsimile No		Telephone No	I			